

FIG. 1

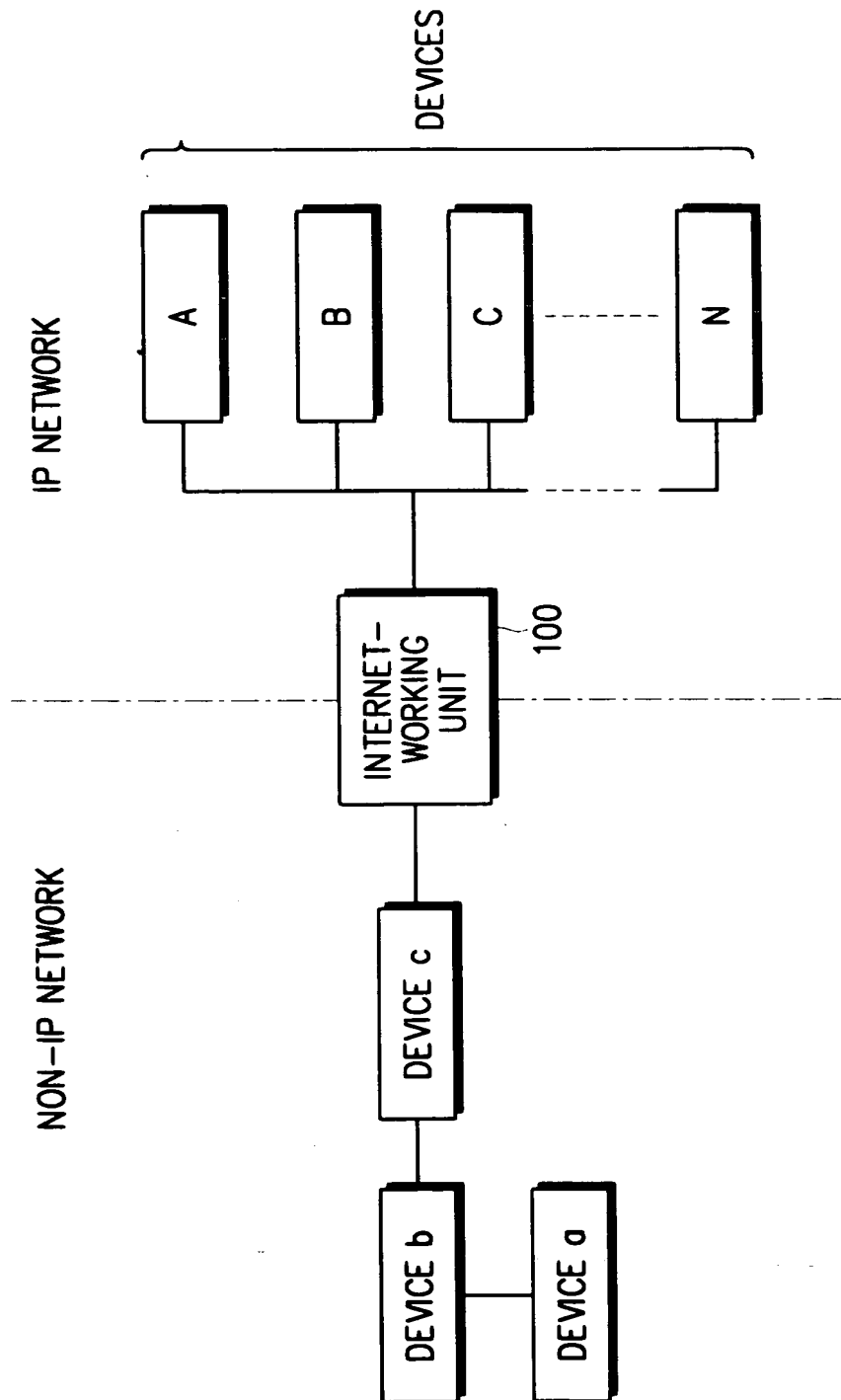


FIG. 2

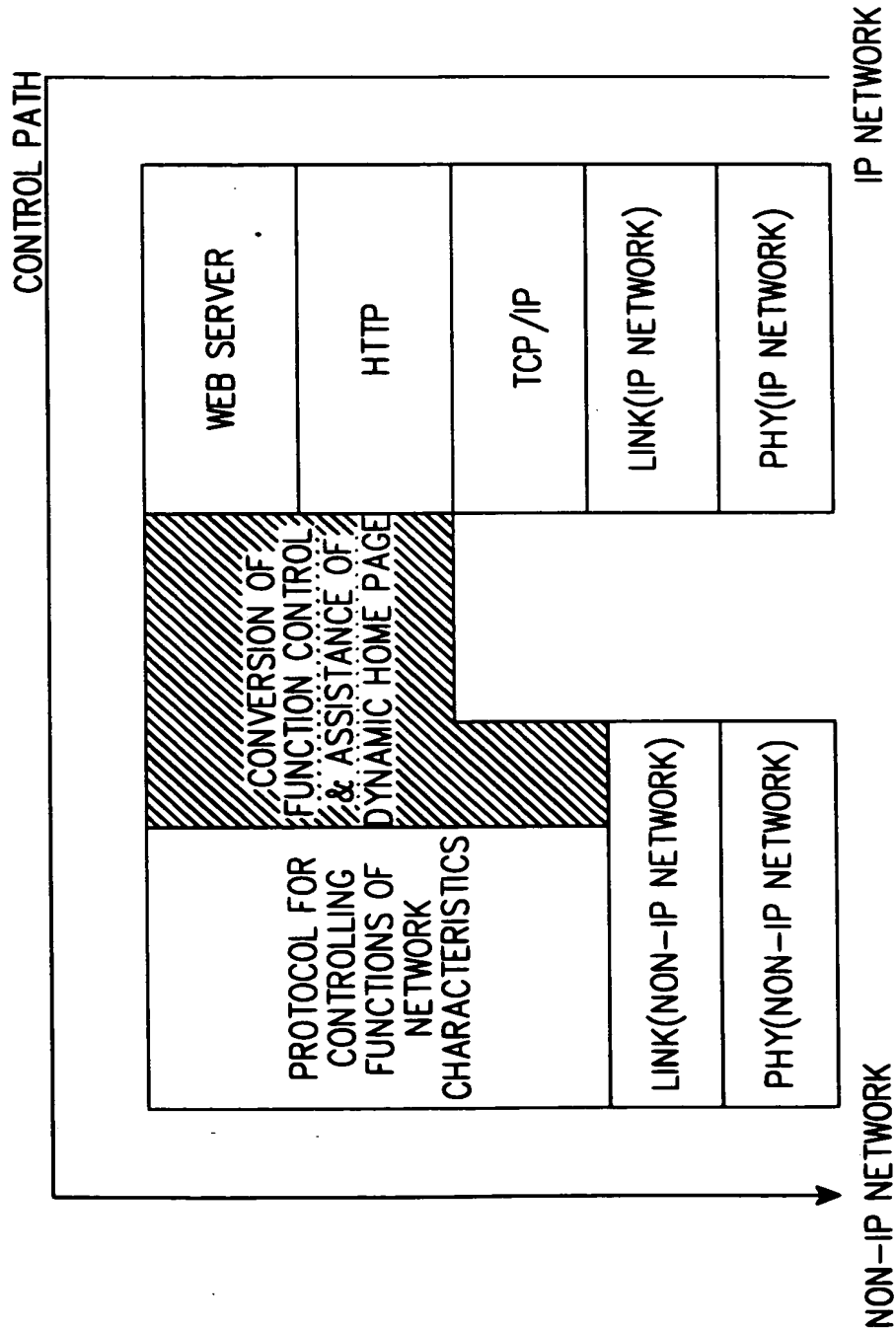
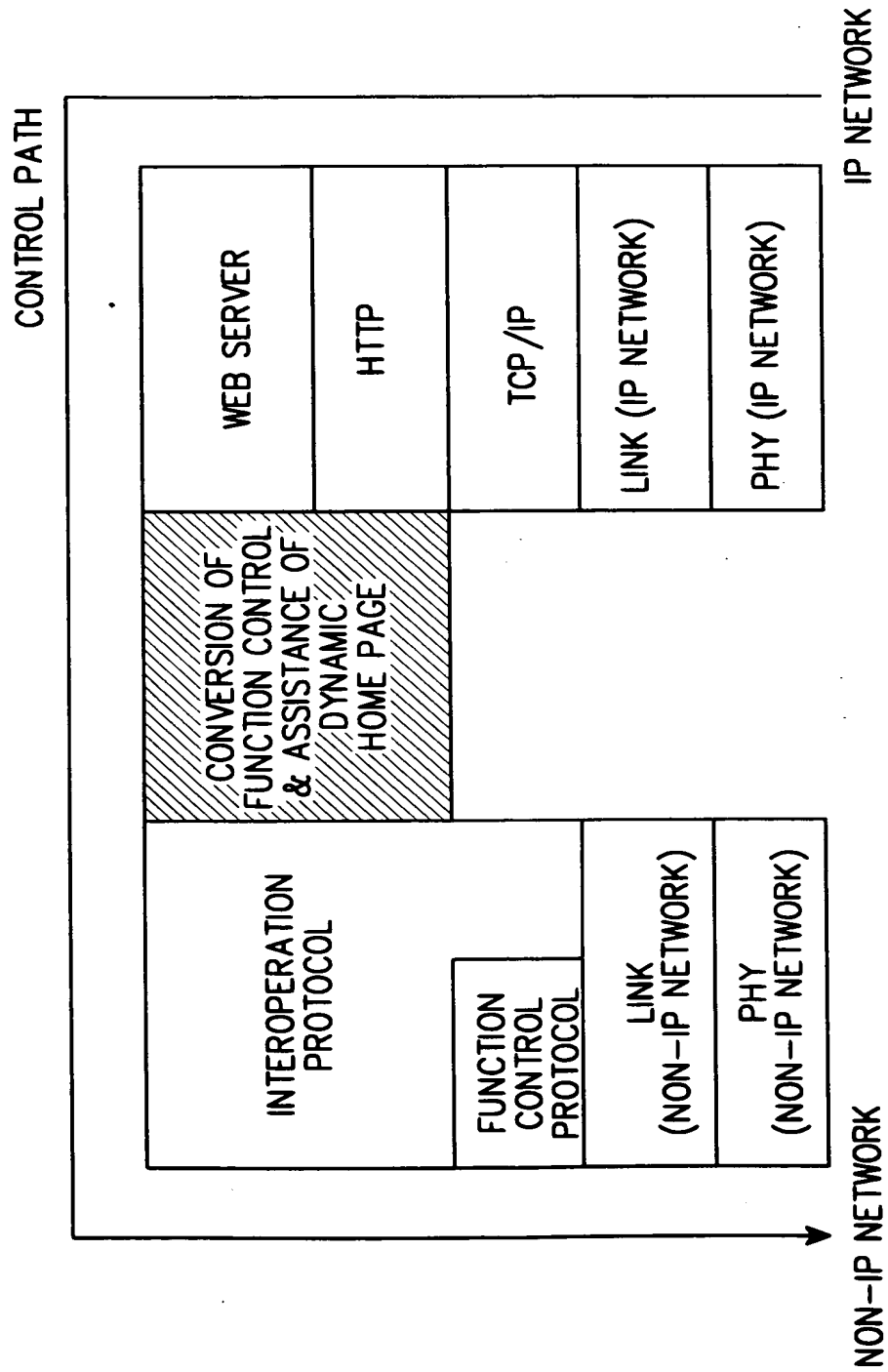


FIG. 3



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sequenceDiagram
    participant TD as TARGET DEVICE
    participant A as IP INTERFACING APPARATUS
    participant CD as CONTROL DEVICE
    participant IPN as IP NETWORK
    participant NN as NON-IP NETWORK

    A->>A: INITIALIZATION
    A->>TD: DEMAND FOR INFORMATION ON NODE
    TD-->A: RESPONSE FROM INFORMATION ON NODE
    A->>A: GENERATION OF DYNAMIC HOME PAGE
    A->>CD: DEMAND FOR ARP
    CD-->A: RESPONSE FROM ARP
    A->>IPN: ACCESS TO HOME PAGE
    IPN-->A: RESPONSE FROM HOME PAGE
    A->>CD: DEMAND FOR CONTROL OF TARGET DEVICE
    CD-->A: REPOSENSE FROM CONTROL OF TARGET DEVICE
    NN->>A: COMMAND
    A->>IPN: DEMAND FOR CONTROL (FCP)
    IPN-->A: RESPONSE FROM CONTROL (FCP)
  
```

The diagram illustrates the process of dynamically generating a home page. It involves four main components: a **TARGET DEVICE**, an **IP INTERFACING APPARATUS** (labeled A), a **CONTROL DEVICE**, and an **IP NETWORK**. The process begins with **INITIALIZATION** within the IP Interfacing Apparatus. The apparatus then sends a **DEMAND FOR INFORMATION ON NODE** to the Target Device, which responds with **RESPONSE FROM INFORMATION ON NODE**. This leads to the **GENERATION OF DYNAMIC HOME PAGE** within the apparatus. Subsequently, the apparatus sends a **DEMAND FOR ARP** to the Control Device, which responds with **RESPONSE FROM ARP**. The apparatus then sends **ACCESS TO HOME PAGE** to the IP Network, which responds with **RESPONSE FROM HOME PAGE**. Next, the apparatus sends a **DEMAND FOR CONTROL OF TARGET DEVICE** to the Control Device, which responds with **REPOSENSE FROM CONTROL OF TARGET DEVICE**. Finally, a **COMMAND** is received from the **NON-IP NETWORK**, which triggers the apparatus to send a **DEMAND FOR CONTROL (FCP)** to the IP Network, receiving a **RESPONSE FROM CONTROL (FCP)** in return.

NON-IP NETWORK

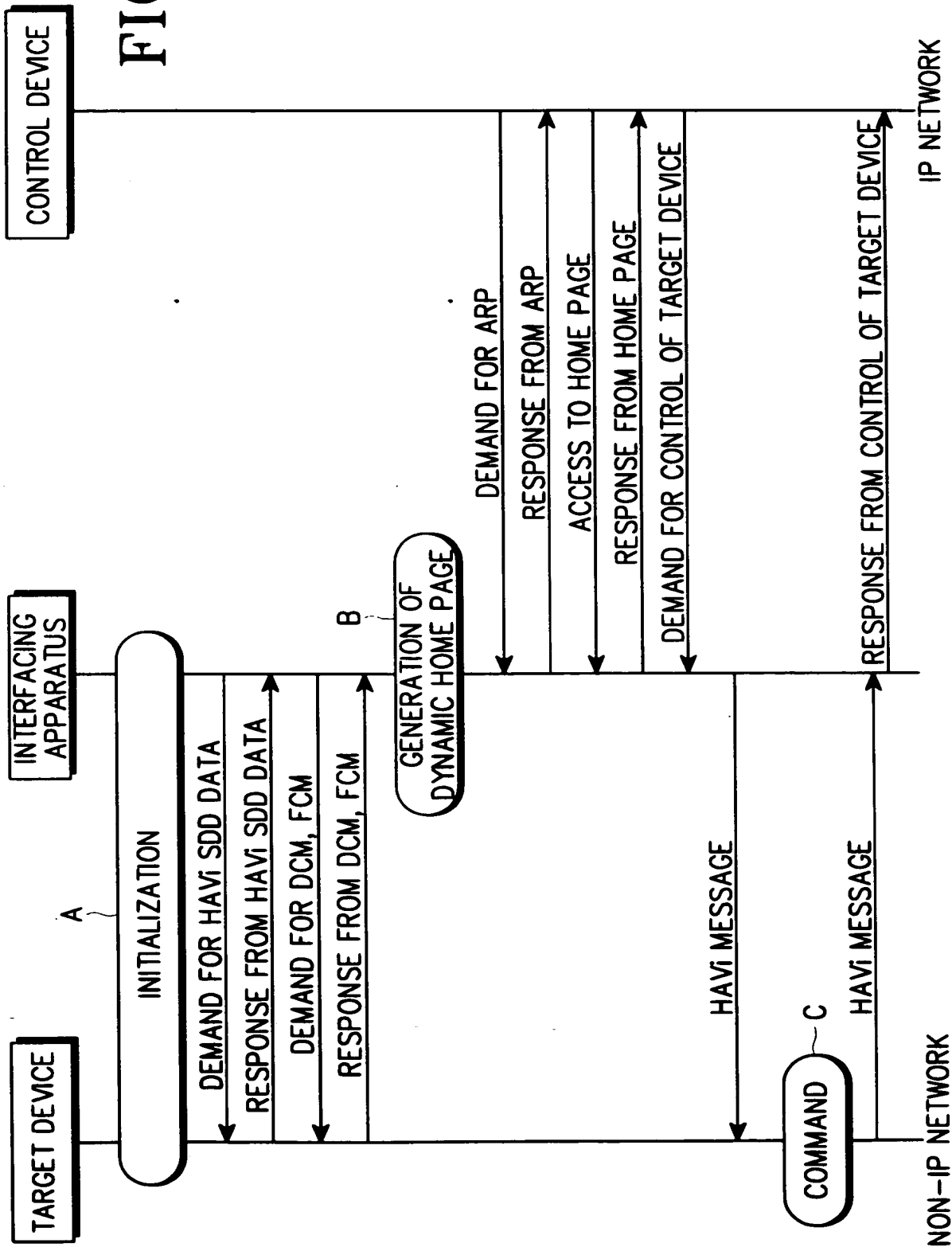


FIG. 5

FIG. 6

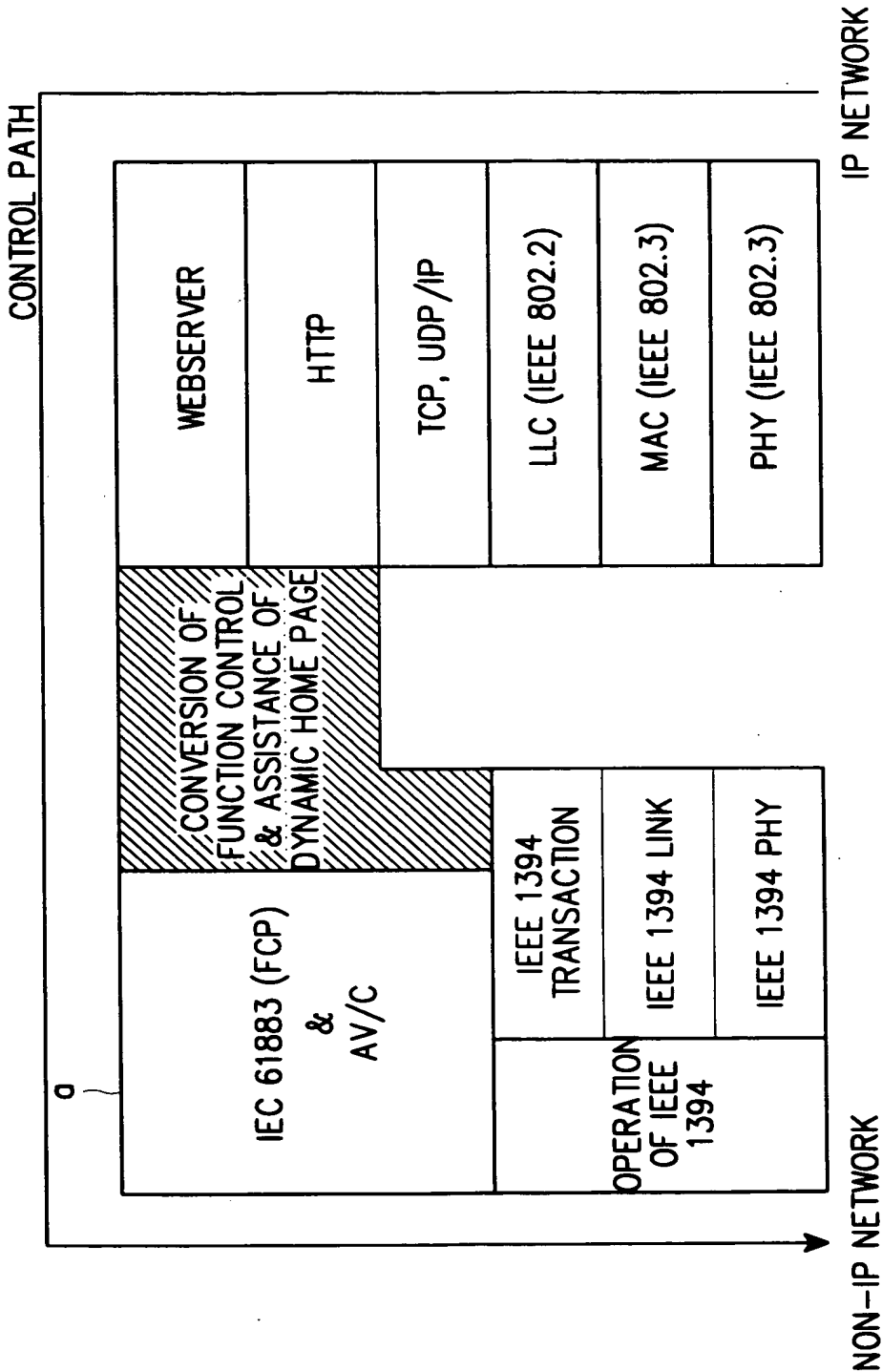


FIG. 7

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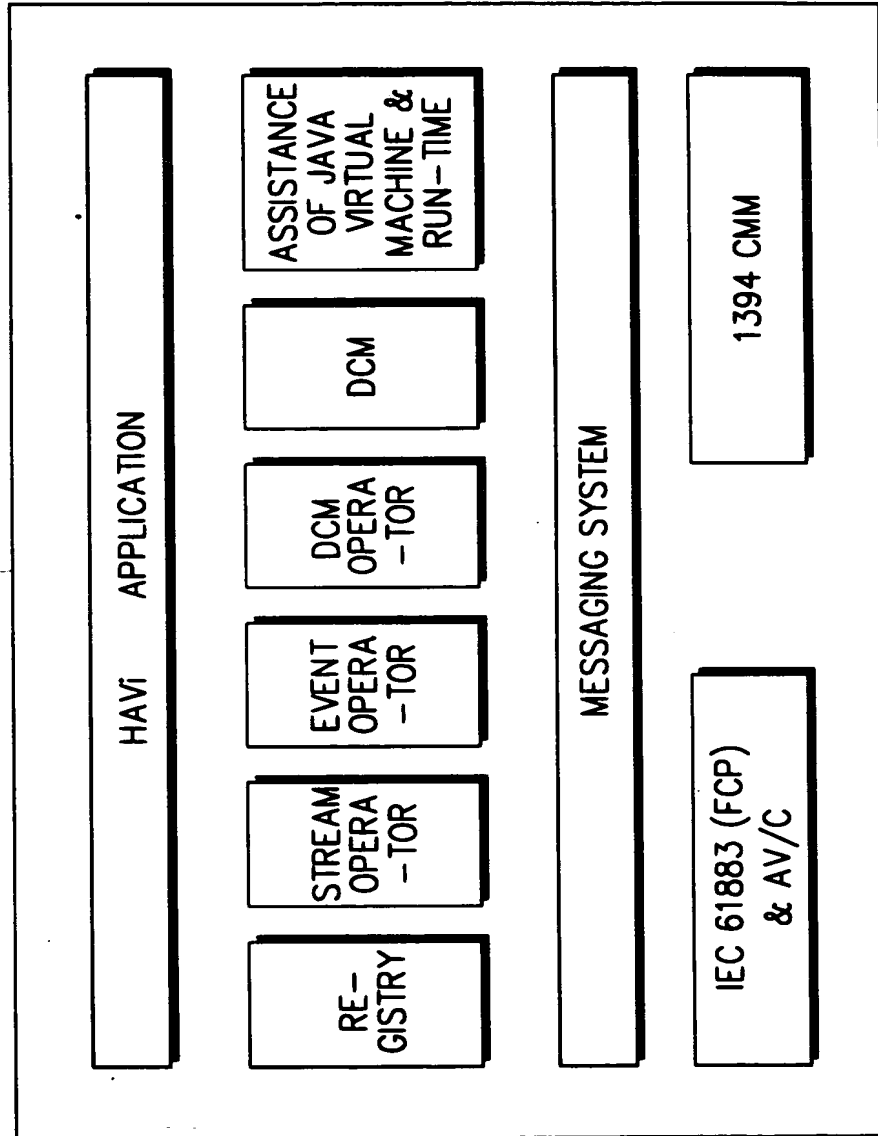
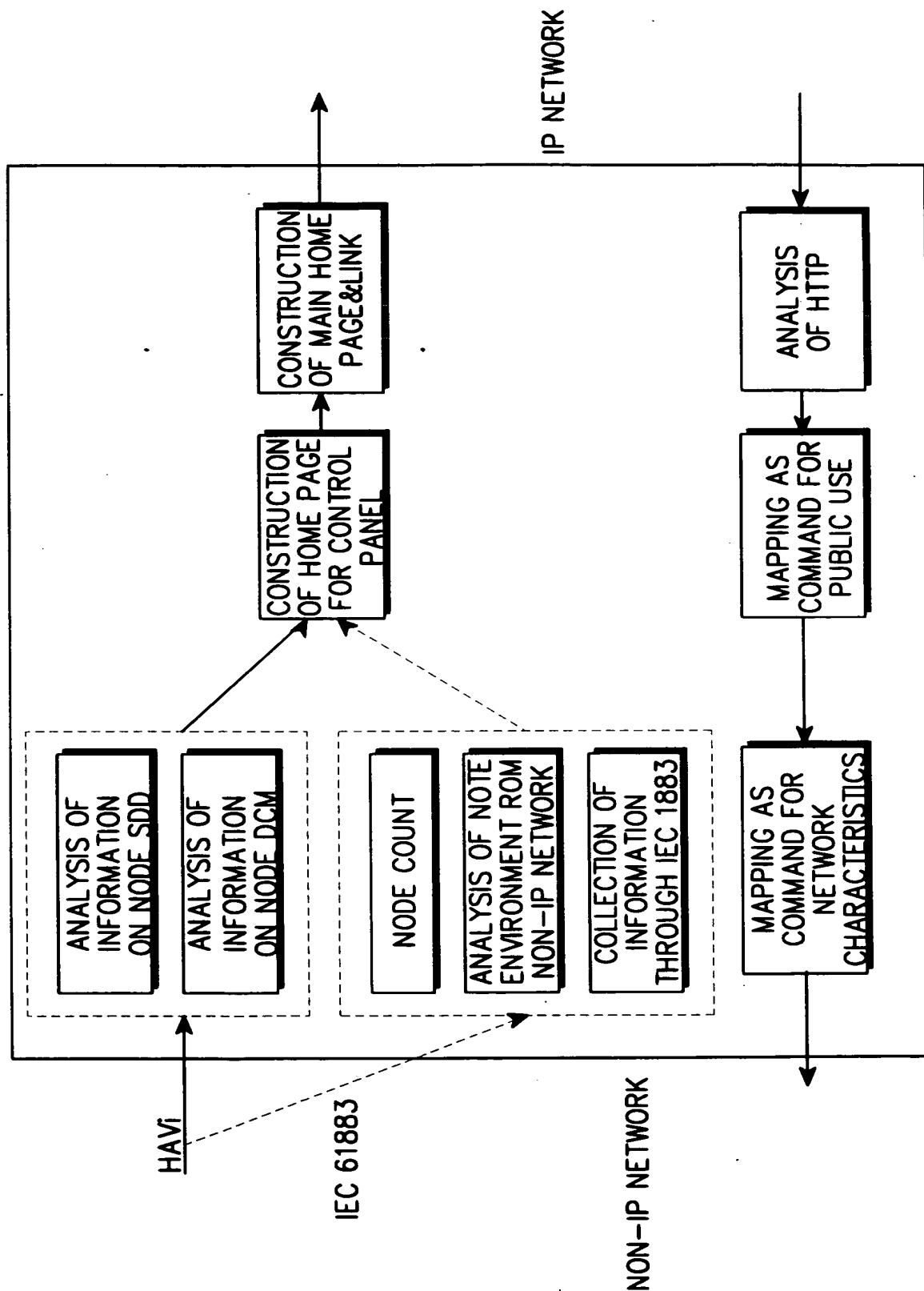


FIG. 8



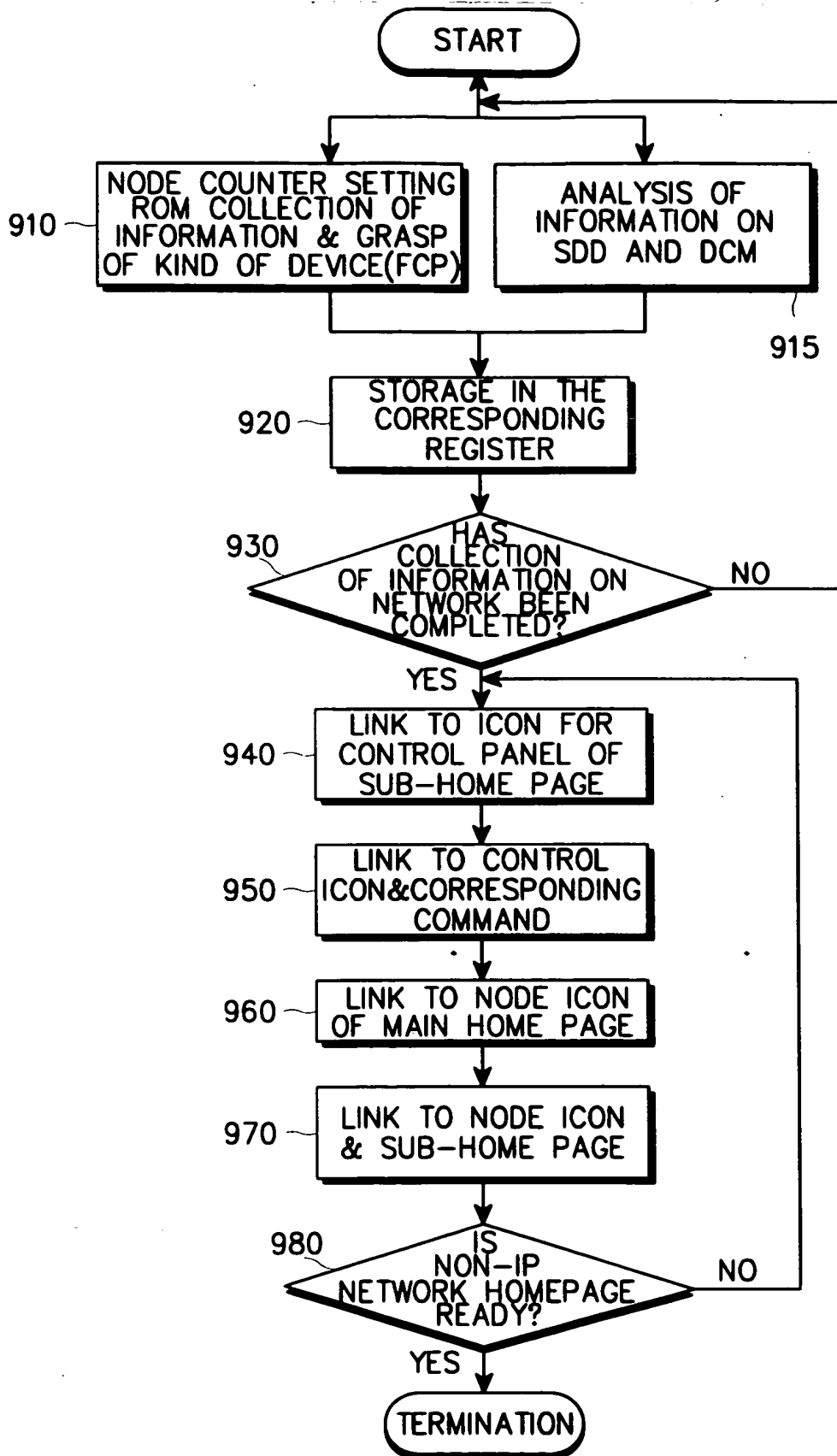


FIG. 9

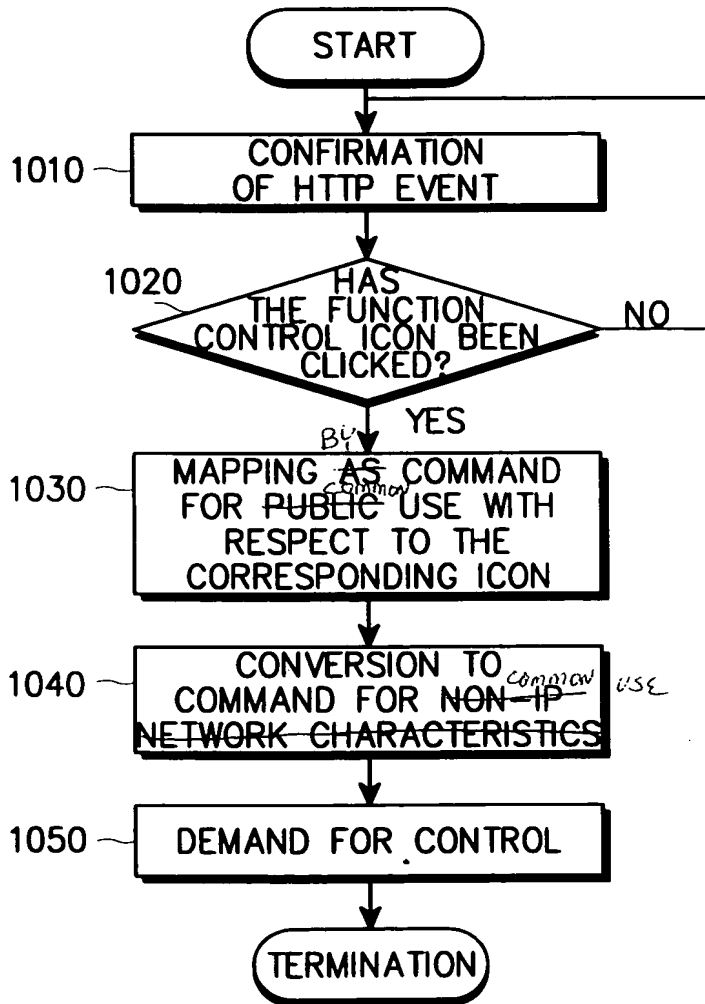


FIG. 10

FIG. 11

